

NYASALAND PROTECTORATE

Annual Medical Report

ON THE

HEALTH AND SANITARY CONDITION

OF THE

NYASALAND PROTECTORATE

FOR THE

YEAR ENDED 31st DECEMBER, 1917.

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OFFICE OF THE PRINCIPAL MEDICAL OFFICER,

ZOMBA,

NYASALAND PROTECTORATE.

27th January, 1919.

Sir,

I have the honour to transmit for the information of His Excellency the Governor and for transmission to the Right Honourable the Secretary of State an abbreviated Medical Report on the Health and Sanitary Condition of the Nyasaland Protectorate for the year ending the 31st December, 1917, together with the Returns, etc., appended thereto.

I have the honour to be,

Sir,

Your obedient servant,

H. HEARSEY,

Principal Medical Officer.

Nyasaland Protectorate.

To

THE HON'BLE THE CHIEF SECRETARY,
ZOMBA.

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NYASALAND PROTECTORATE.

ANNUAL MEDICAL REPORT

FOR THE YEAR ENDED 31st DECEMBER, 1917.

i. ADMINISTRATIVE

STAFF.

The Medical Staff consisted of :—

The Principal Medical Officer.

8 Medical Officers.

The Nursing Staff comprised :—

The Matron.

3 Nursing Sisters.

P.M.O's Office :—One Clerk.

Subordinate Staff :—1 Second Class Senior Sub-Assistant Surgeon.

2 First Class Sub-Assistant Surgeons.

Of these one was in civil and two in military employment.

PRINCIPAL APPOINTMENTS AND CHANGES DURING THE YEAR.

New Appointments :—Nil.

Leave :—Nil

Transfer—Dr. H. S. Stannus to New Langenburg, German East Africa, in June.

Invalidings :—

Dr. Leys was invalided to England in August.

Dr. Eldred was invalided to South Africa in September.

Dr. Drummond was invalided to England in December.

Deaths :—Nil.

DISPOSITION OF THE MEDICAL STAFF IN 1917.

A. *Medical Staff.*

I. ON CIVIL AND MILITARY DUTY.

At Zomba :—

Dr. H. Hearsey, P. M. O.

Dr. N. M. Leys, from January to August.

Dr. A. G. Eldred, from January to September.

Dr. R. Drummond, from June to December.

II. ON MILITARY DUTY WITH NYASALAND FIELD FORCE.

Dr. H. S. Stannus, from January to June.

Dr. G. M. Sanderson. | Dr. R. Bury.

III. ON CIVIL DUTY.

(a). At Port Herald :—

Dr. J. B. Davey, from January to June.

Dr. J. E. S. Old, from July to December.

(b). At Blantyre :—

Dr. R. Drummond, from January to June.

Dr. J. B. Davey, from June to December.

B. Nursing Staff.

I. ON CIVIL AND MILITARY DUTY.

At Zomba :—

Miss S. M. Symonds.

II. ON MILITARY DUTY WITH NYASALAND FIELD FORCE.

Miss. R. Paterson. | Miss A. A. Pallot.

III. ON CIVIL DUTY.

At Blantyre :—

Miss M. Farrow.

C. Sub-Assistant Surgeons.

I. ON CIVIL AND MILITARY DUTY.

At Zomba :—

S.A.S. Varyam Singh.

II. ON MILITARY DUTY WITH NYASALAND FIELD FORCE.

Senior S.A.S. Bir Singh. | S.A.S. Kishan Singh.

TABLE I. MEDICAL STAFF.

Principal Medical Officer : H. Hearsey.

Medical Officers :

J. E. S. Old.	A. G. Eldred.
J. B. Davey.	G. M. Sanderson.
H. S. Stannus.	R. Drummond.
N. M. Leys.	R. Bury.

NURSING STAFF.

Matron : R. Paterson.

Nursing Sisters.

A. A. Pallot. | M. Farrow.
S. M. Symonds.

SUB-ASSISTANT SURGEONS.

Senior S.A.S. Bir Singh. | S.A.S. Varyam Singh.
S.A.S. Kishan Singh.

TABLE II. FINANCIAL RETURN.

The estimated expenditure of the Medical Department for the year 1917-18 was as follows :—

Personal Emoluments	...	...	...	...	£7,854
Other Charges	...	...	...	...	2,184
					<hr/> £10,038

The actual expenditure during the year was as follows :—

Personal Emoluments	...	...	...	...	£7,499 15 10
Other Charges	...	...	...	...	3,660 0 1
					<hr/>
Total					<hr/> £11,159 15 11

The Principal Savings were under the following heads :—

Wages of Sub-staff (due to their employment on military duty); Upkeep of Hospitals and Dispensaries (these also having been utilized and paid for by the military); Sleeping Sickness and other investigations (owing to the suspension of Sleeping Sickness work).

The over-expenditure was incurred mainly on account of measures directed against an outbreak of Bubonic Plague in the North Nyasa district, a sum of £1,615 having been expended for this purpose, the major portion of which was paid out to natives for destroying rats. But for this item there would have been a net saving of about £500 in the estimated expenditure for the year.

Revenue: This amounted to £475 11s. 11d., and was derived mainly from hospital fees and the sale of medical stores.

PUBLIC HEALTH.

(A). GENERAL HEALTH.

As in the previous year the health of the Protectorate has not been satisfactory owing to the extensive movement of natives, into and within the Protectorate, which was necessitated by the military operations.

Small-pox, which last year was confined to the Dowa and Lilongwe districts, made its appearance in other areas, and was reported from seven other districts. It was found impossible to entirely restrict the movements of natives with a view to checking the spread of the disease, as the increasing military demands for labour had to be met.

Owing to the lack of Medical Officers, Sleeping Sickness investigations were entirely suspended, there being no officer available for this duty throughout the year.

Twenty-eight cases of Bubonic Plague were reported from Karonga, in the North Nyasa district. Of these, eleven were notified in January, eight in February, five in March, and two each in September and October. This outbreak was merely a continuance of the one mentioned in last year's report when three cases occurred in the month of November, and ten in December. The extermination of rats, inoculation, and other preventive measures which were adopted not only checked the local spread of the disease but prevented its gaining an entry into other parts of the Protectorate.

As in the case of Plague, Cerebro-spinal meningitis was also introduced into Nyasaland from German East Africa. It was first observed among the native German prisoners of war who were sent to Zomba for internment. Altogether, a total of 67 cases was recorded during the year; the case-mortality was high; but of the three Europeans who contracted the disease only one died.

1. GENERAL DISEASES.

There were none of any importance recorded.

2. COMMUNICABLE DISEASES.

(1.) MOSQUITO OR INSECT-BORNE.

Malaria.—A total of 320 cases was returned, as against 385 in the previous, and 621 in the preceding year, and among these there were three deaths.

Blackwater Fever.—There were two cases recorded, as against a similar number in the two previous years, and three in 1914. One of these cases recovered and one died.

Trypanosomiasis.—As already mentioned, Sleeping Sickness investigations were suspended throughout the year as no Medical Officer was available to undertake this work. It cannot be too strongly emphasized, however, that there is a steady annual death-rate from Trypanosomiasis not only in the Dowa

but in the adjoining Marimba district as well. And in this connection it is necessary to recall to mind that whereas formerly it was maintained on all hands that there could be no human trypanosomiasis in the absence of *Glossina palpalis*, it remained for Sir David Bruce's Commission to confirm the finding of Drs. Kinghorn and Yorke that the common tsetse fly of this country, (*G. morsitans*), previously regarded as the carrier of animal trypanosomiasis only, was the *vector* of trypanosomiasis in man also.

The invaluable work connected with the bionomics of the tsetse fly, which was commenced by Dr. Lamborn, will need to be resumed again, so soon as this officer is available for duty.

(2). INFECTIOUS OR EPIDEMIC.

Beri Beri.—Five cases came under treatment, as against 10 last year, and six in the previous year.

Chicken-pox.—Twelve cases were reported, as compared with 29 in the previous, and 119 in the preceding year.

Dysentery.—There were 283 cases notified, as against 262 in 1916, and 351 in 1915. Among these there were 18 deaths, as compared with two in the previous, and 14 in the preceding year.

Enteric.—One case was recorded in an uninoculated subject and was followed by recovery. In 1916 there were three cases with one death, and in 1915 six cases and no deaths.

Erysipelas.—Only one case was returned, as in the two preceding years.

Gonorrhæa.—There were 53 cases, as against 45 in 1916, and 34 in 1915.

Influenza.—Two cases, as compared with three in the previous year.

Leprosy.—Only one case came under treatment, as against two in 1916, and 12 in 1915.

Mcasles.—There were seven cases notified, as compared with five in the previous, and nine in the preceding year.

Pneumonia.—Sixty-three cases with 13 deaths, as against 44 with eight deaths in 1916, and 41 with five deaths in 1915.

Syphilis.—There were 171 cases with three deaths, as compared with 118 cases in the previous, and 126 in the preceding year.

Tuberculosis.—Fourteen cases came under treatment, as against 13 and 16 in preceding years.

Whooping Cough.—There were two cases, as compared with four in 1916, and 19 in 1915.

Yaws.—Fifteen cases were treated, as against a similar number in the previous, and 22 in the preceding year.

Pellagra.—Three cases were notified.

Plague.—Nineteen cases were reported from the North Nyasa district, as against 13 in 1916. Of these nine died, as compared with 10 in the previous year.

Cerebro-spinal meningitis.—There were 67 cases treated, and of these 45 died.

B. EUROPEAN OFFICIALS.

As in the previous three years the health of European Officials has suffered in consequence of the longer tours of service which the War has imposed.

Eleven were invalided during the year, as compared with nine in 1916, 10 in 1915, and seven in 1914.

A total of 174 cases came under treatment, and there was one death, as against 185 cases and three deaths in the previous year, and 188 cases and one death in the preceding year. The fatal case was one of Blackwater fever.

Malaria accounted for 20 cases among the total admissions, as compared with 30 cases in 1916, and 41 in 1915.

The causes of invaliding were as follows:—Debility 3; Pulmonary tuberculosis 1; Diabetes 1; Cachexia 1; Asthma 1; Neurasthenia 2; Schistosomiasis 1; and Cardiac debility 1.

TABLE SHOWING SICK, INVALIDING, AND DEATH RATES FOR EUROPEAN OFFICIALS, PORT HERALD.

	1915	1916	1917
Total number of Officials	13	14	13
Average number resident	9	7	6
Total number on Sick List	8	10	11
Total number of days on Sick List	181	117	290
Average daily number on Sick List	50	35	79
Percentage of Sick to average number resident	88·8	143	183·3
Average number of days on Sick List for each Patient	20·1	5·85	26·
Average Sick time to each resident	20·1	16·7	48·3
Total number Invalided	1	1	0
Percentage of Invalidings to total residents	7·69	7·14	0
Total Deaths	Nil	Nil	Nil
Percentage of Deaths to total residents	„	„	„
„ „ „ „ average number resident	„	„	„
No. of cases of Sickness contracted away from residence	1	„	„

TABLE SHOWING SICK, INVALIDING, AND DEATH RATES FOR EUROPEAN OFFICIALS, BLANTYRE.

	1915	1916	1917
Total number of Officials	15	21	20
Average number resident	15	15	14
Total number on Sick List	15	14	11
Total number of days on Sick List	98	14	326
Average daily number on Sick List	26	14	0·9
Percentage of Sick to average number resident	100	93	77
Average number of days on Sick List for each Patient	6·5	7	25
Average Sick time to each resident	6·5	7	23·3
Total number Invalided	1	2	1
Percentage of Invalidings to total residents	6·6	13	5
Total Deaths	Nil	Nil	Nil
Percentage of Deaths to total residents	„	„	„
„ „ „ „ average number resident	„	„	„
No. of cases of Sickness contracted away from residence	2	3	„

TABLE SHOWING SICK, INVALIDING, AND DEATH RATES FOR EUROPEAN OFFICIALS, ZOMBA.

	1915	1916	1917
Total number of Officials	49	67	48
Average number resident	49	47	45
Total number on Sick List	63	78	26
Total number of days on Sick List	1151	501	208
Average daily number on Sick List	3·1	4·1	57
Percentage of Sick to average number resident	128·5	165·9	57·8
Average number of days on Sick List for each Patient	6·9	6·4	8
Average Sick time to each resident	23·1	7·5	4·6
Total number Invalided	8	5	10
Percentage of Invaliding to total residents	16·6	7·4	20·8
Total Deaths	1	Nil	Nil
Percentage of Deaths to total residents	2	„	„
„ „ „ „ average number resident	2	„	„
No. of cases of Sickness contracted away from residence	Nil	„	„

(c). GENERAL EUROPEAN POPULATION.

There was 269 cases of sickness treated with one death, as compared with 288 cases and three deaths in 1916, and 300 cases in 1915.

In order of frequency the principal diseases treated were malaria, digestive disorders, and bowel complaints.

III.—SANITATION.

1.—ADMINISTRATIVE.

No sanitary legislation was enacted during the year.

2.—PREVENTIVE MEASURES.

These were directed principally against malaria, and much of the sanitary work in the various townships was carried out by the military authorities.

EPIDEMIC DISEASES.

Small-pox. The following is a return of the vaccinations which were performed during the year.

District.	Successful.	Modified.	Failed.	Not seen.	Total.
Port Herald	4,706	1,779	1,200	839	8,524
Ruo	3,171	817	189	79	4,256
Mlanje	1,811	1,595	708	228	4,342
Blantyre	8,901	3,905	2,269	150	15,225
West Shire	605	1,401	2,333	227	4,566
Zomba	1,098	286	357	80	1,821
Upper Shire	1,964	1,404	1,987	463	5,818
South Nyasa	7,581	770	579	371	9,301
Dedza	821	411	334	299	1,865
Lilongwe	6,632	2,981	1,883	1,124	12,620
Dowa	793	1,225	858	203	3,079
Marimba	6,716	3,130	3,389	179	13,414
Mzimba	11,726	1,118	805	1,476	15,125
West Nyasa	2,623	1,307	1,574	928	6,432
North Nyasa	2,761	3,579	3,110	239	9,689
Total	61,909	25,708	21,575	6,885	116,077

3. GENERAL MEASURES.

A summary of routine sanitary work done in the various towns during the year is shown in the subjoined Tables.

TABLE IV.

SUMMARY OF ROUTINE SANITARY WORK DONE DURING THE YEAR
IN THE TOWN.

1. NAME OF TOWN—PORT HERALD.

	Approximate area.	Number of proclaimed open spaces.
1915	200 acres	Nil
1916	200 „	„
1917	200 „	„

2. POPULATION.

	Number of Natives.		Number of Europeans.		Total.
	Males.	Females.	Males.	Females.	
1915	82	22	15	3	122
1916	109	16	13	6	144
1917	243	46	12	3	304

3. HOUSING.

	Number occupied by Europeans.	Number occupied by Natives.
Number of Houses :—		
1915	12	—
1916	11	—
1917	10	92 (brick)
Number of Huts :—		
1915	—	32
1916	—	85
1917	—	9

4. MOSQUITO PROTECTION OF HOUSES.

	1915	1916	1917
Number of European houses wholly mosquito-protected ...	3	3	3
Number of European houses with mosquito room ...	6	6	6
Number rendered during the year wholly mosquito-protected	—	—	—
Number rendered during the year partially mosquito-protected	1	—	—

5. ERECTION OF NEW BUILDINGS DURING THE YEAR.

	1915	1916	1917
Number of public buildings erected with sanction as to site, construction, and relation to other buildings	—	—	—
Number of houses erected with sanction as to site, construction, and relation to other buildings	1	—	2
Number of huts erected with sanction as to site, construction, and relation to other buildings	—	—	5
Number of houses built without sanction	—	—	—
Number of huts built without sanction	—	—	—

ACTION TAKEN.

	Number of Prosecutions		Number demolished.	
	Huts.	Houses.	Huts.	Houses.
1915	Nil	Nil	Nil	Nil
1916	"	"	"	"
1917	"	"	5	2

6. MARKETS.

	Total number.	Number paved and drained.	Number unpaved.
1915	Nil	Nil	Nil
1916	"	"	"
1917	"	"	"

7. SLAUGHTER-HOUSES.

	Total number.	Number paved and drained.	Number unpaved.
1915	Nil	Nil	Nil
1916	"	"	"
1917	"	"	"

8. LATRINES.

	For Males.		For Females.	
	Number.	Number of seats.	Number.	Number of seats.
Number of Public Latrines :—				
1915	5	10	3	3
1916	3	6	—	—
1917	5	5	1	1
Number of new Public Latrines erected during the year :—				
1915	1	2	—	—
1916	1	2	—	—
1917	—	—	—	—
Number of Public Latrines repaired during the year :—				
1915	3	6	3	3
1916	—	—	—	—
1917	—	—	—	—
Number of Public Latrines demolished during the year :—				
1915	—	—	—	—
1916	—	—	—	—
1917	—	—	—	—

	1915	1916	1917
Number of Private Latrines	12	12	27
Average number of pails of nightsoil removed daily ..	12	12	27
Average number of soiled pails removed and clean pails substituted	12	12	27
Number of nightsoil men employed to clean latrines and remove excreta	2	2	4
Number of cesspools	—	—	—
Number of cesspools cleansed	—	—	—
Number of new cesspools constructed during the year ...	—	—	—
Number of old cesspools abolished	—	—	—
Number of cesspools oiled regularly by Department ...	—	—	—

9. REMOVAL OF REFUSE.

	1915	1916	1917
Number of dustbins	24	24	20
Number of carts at work daily to remove refuse from streets	1	—	—
Amount of refuse removed daily	12	—	—
Number of carts at work daily to remove refuse from yards and premises	1	—	—
Amount of refuse removed daily from yards and premises ...	12	—	—
Number of men employed for moving refuse	2	2	2

10. MODE OF DISPOSAL OF EXCRETA, REFUSE AND OFFAL.

	Daily average number of pails of excreta.			Daily average number of cartloads of refuse			Daily average number of cartloads of Slaughter House and Market Offal.		
	1915	1916	1917	1915	1916	1917	1915	1916	1917
Buried or trenched	—	12	23	—	—	—	Nil	Nil	Nil
Burnt	—	—	—	—	—	—	"	"	"
Thrown into sea	—	—	—	—	—	—	"	"	"
Otherwise dealt with	—	—	—	—	—	—	"	"	"

State mode of disposal.

11. AVERAGE DAILY NUMBER OF CARTLOADS OF TIN CANS, BOTTLES, BROKEN CROCKERY, AND OTHER INCOMBUSTIBLE MATERIAL REMOVED FROM HOUSES, HUTS AND COMPOUNDS.

1915	1916	1917
Not	estimated.	

12. WATER SUPPLY.

Nature of Water Supply.	1915	1916	1917
Pipe-borne water :—			
Source (river, lake, or spring) :—			
Number of linear yards			
Number of stand-pipes along roads ...	Nil	Nil	Nil
Number of stand-pipes in compounds and houses ...	"	"	"
Wells :—	"	"	"
Public :—			
Number	"	"	"
Number with pumps protected against surface water and mosquito-protected	"	"	"
Private :—			
Number	5	3	3
Number protected against surface water and mosquito-protected	2	—	—
Tanks :—			
Public :—			
Number underground	Nil	Nil	Nil
Number mosquito-protected and served by pumps ...	"	"	"
Number above ground	"	"	"
Number mosquito-protected	"	"	"
Number of 400 gallons capacity or less	"	"	"
Number above 400 gallons	"	"	"
Private :—			
Number underground	—	—	—
Number mosquito-protected	—	—	—
Number above ground	—	1	3
Number mosquito-protected	—	1	1
Number of 400 gallons capacity or less	—	—	2
Number above 400 gallons	—	1	1

Nature of Water Supply.	1915	1916	1917
Nature of tanks :—			
Wood	—	—	—
Iron	—	1	3
Concrete	—	—	—
Barrels :—			
Number	—	1	1
Number mosquito-protected	—	—	—

13. DRAINAGE.

Nature of Drainage.	Public.	Private.
Masonry drains :—		
Linear yards of masonry drains :—		
1915	65	—
1916	—	—
1917	783	—
Linear yards reconstructed during the year :—		
1915	20	—
1916	—	—
1917	40	—
Linear yards repaired during the year :—		
1915	20	—
1916	—	—
1917	150	—
Linear yards of new drains constructed during the year :—		
1915	20	—
1916	—	—
1917	—	—
Earth drains or ditches :—		
Number of linear yards of ditches cleaned :—		
1915	400	—
1916	400	—
1917	2920	—
Number of linear yards of ditches dug and graded :—		
1915	100	—
1916	100	—
1917	75	—
Average frequency of clearing ditches of grass :—		
1915	2	—
1916	2	—
1917	8	—

14. CLEARANCE OF UNDERGROWTH, LONG GRASS AND JUNGLE.

	1915	1916	1917
Number of square yards of weeds, grass, and vegetation cut and removed	200	acres.	
Average frequency of clearance of rank vegetation on same area	2	2	2

15. EXCAVATIONS AND LOW-LYING LAND.

	1915	1916	1917
Number of pools and excavations	Several		41
Number of excavations filled up	Nil		5
Amount of low-lying and marsh land raised and drained ...	—	—	—
Number of pools, marshes, streams, &c., fish-stocked ...	—	—	—
Number of cubic yards of material used for filling up pools and excavations	—	—	?
Number of persons fined for making new excavations	—	—	—
Average number of men daily employed in filling up pools &c.	—	—	—

16. OILING.

	1915	1916	1917
Number of drains oiled	Nil	Nil	Nil
Number of pools and excavations oiled	"	"	"
Number of tanks and barrels oiled	"	"	"
Average number of men daily employed for oiling drains, pools, and watertanks or barrels	"	"	"

17. INSPECTIONS AND PROSECUTIONS.

	1915	1916	1917
Number of inspectors employed	1	—	—
Number of houses inspected	all	all	all
Number of houses where larvae were found	4	—	—
Number of notices served to remove conditions causing the breeding of larvae	3	—	—
Number of persons fined for having mosquito larvae on premises	—	—	—
Number of notices served to remove insanitary conditions on premises	2	—	4
Number of persons fined for not removing insanitary conditions after notice	—	—	1
Number of soda and aerated water factories inspected ...	—	—	—

TABLE IV.
SUMMARY OF ROUTINE SANITARY WORK DONE DURING THE YEAR
IN THE TOWN.

1. NAME OF TOWN—BLANTYRE.

—	Approximate area.	Number of proclaimed open spaces.
1915	1,684 acres.	Golf Links.
1916	1,684 „	„ and old show ground.
1917	1,000 „	„ „ Public garden.

2. POPULATION.

—	Number of Natives.		Number of Europeans.		Total.
	Males.	Females.	Males.	Females.	
1915					
1916*	60	60	48	21	189
1917	140	70	29	14	253

* Area of township reduced by revision of boundaries February 1915 and many European dwellings therefore now outside, instead of as formerly, inside the township.

3. HOUSING.

—	Number occupied by Europeans.	Number occupied by Natives.
Number of Houses:—		
1915	56	None
1916	57	„
1917	23	„
Number of Huts:—		
1915	None	620
1916	„	300
1917	„	300 approximately

4. MOSQUITO PROTECTION OF HOUSES.

—	1915	1916	1917
Number of European houses wholly mosquito-protected ...	1	—	—
Number of European houses with mosquito room	1	1	1
Number rendered during the year wholly mosquito-protected	—	—	—
Number rendered during the year partially mosquito-protected	1	—	—

5. ERECTION OF NEW BUILDINGS DURING THE YEAR.

	1915	1916	1917
Number of public buildings erected with sanction as to site, construction, and relation to other buildings	1	—	—
Number of houses erected with sanction as to site, construction, and relation to other buildings	—	—	1
Number of huts erected with sanction as to site, construction, and relation to other buildings	20	—	1
Number of houses built without sanction	—	2	—
Number of huts built without sanction	—	—	10

ACTION TAKEN.

	Number of Prosecutions		Number demolished.	
	Huts.	Houses.	Huts.	Houses.
1915	Nil	Nil	Nil	Nil
1916	”	”	”	”
1917	”	”	”	”

6. MARKETS.

	Total number.	Number paved and drained.	Number unpaved.
1915	1	Nil	1
1916	1	”	1
1917	1	”	1

7. SLAUGHTER-HOUSES.

	Total number.	Number paved and drained.	Number unpaved.
1915	1	Nil	1
1916	1	”	1
1917	2 (one unused)	1	1

8. LATRINES.

	For Males.		For Females.	
	Number.	Number of seats.	Number.	Number of seats.
Number of Public Latrines :—				
1915	4	—	4	—
1916	4	—	4	—
1917	3	5	2	4
Number of new Public Latrines erected during the year :—				
1915	—	—	—	—
1916	—	—	—	—
1917	1	2	—	—
Number of Public Latrines repaired during the year :—				
1915	—	—	—	—
1916	2	—	2	—
1917	3	—	2	—
Number of Public Latrines demolished during the year :—				
1915	—	—	—	—
1916	—	—	—	—
1917	—	—	—	—

	1915	1916	1917
Number of Private Latrines	67	67	56
Average number of pails of nightsoil removed daily ...	67	67	56
Average number of soiled pails removed and clean pails substituted	67	67	56
Number of nightsoil men employed to clean latrines and remove excreta	—	—	12
Number of cesspools	—	—	—
Number of cesspools cleansed	—	—	—
Number of new cesspools constructed during the year ...	—	—	—
Number of old cesspools abolished	—	—	—
Number of cesspools oiled regularly by Department ...	—	—	—

9. REMOVAL OF REFUSE.

	1915	1916	1917
Number of dustbins	6	6	10
Number of carts at work daily to remove refuse from streets	—	—	1
Amount of refuse removed daily	1	1	3
Number of carts at work daily to remove refuse from yards and premises... ..	—	—	—
Amount of refuse removed daily from yards and premises	—	—	—
Number of men employed for moving refuse	—	—	—

10. MODE OF DISPOSAL OF EXCRETA, REFUSE, AND OFFAL.

	Daily average number of pails of excreta.			Daily average number of cartloads of refuse			Daily average number of cartloads of Slaughter House and Market Offal.		
	1915	1916	1917	1915	1916	1917	1915	1916	1917
Buried or trenched ...	67	67	56	2	2	—	—	—	—
Burnt ...	—	—	—	—	—	3	—	—	—
Thrown into sea ...	—	—	—	—	—	—	—	—	—
Otherwise dealt with ...	—	—	—	—	—	—	—	—	—

State mode of disposal.

11. AVERAGE DAILY NUMBER OF CARTLOADS OF TIN CANS, BOTTLES, BROKEN CROCKERY AND OTHER INCOMBUSTIBLE MATERIAL REMOVED FROM HOUSES, HUTS, AND COMPOUNDS.

1915	1916	1917
Included in No. 10	Included in No. 10.	

12. WATER SUPPLY.

Nature of Water Supply.	1915	1916	1917
Pipe-borne water :—			
Source (river, lake, or spring) :—			
Number of linear yards	—	—	—
Number of stand-pipes along roads	—	—	—
Number of stand-pipes in compounds and houses	—	—	—
Wells :—			
Public :—			
Number	2	2	2
Number with pumps protected against surface water and mosquito-protected	Covered	in but without	
Private :—			
Number	4	4	4
Number protected against surface water and mosquito-protected	All protected, one	with	pump
Tanks :—			
Public :—			
Number underground	—	—	—
Number mosquito-protected and served by pumps	—	—	—
Number above ground	—	—	—
Number mosquito-protected	—	—	—
Number of 400 gallons capacity or less	—	—	—
Number above 400 gallons	—	—	—
Private :—			
Number underground	18	18	—
Number mosquito-protected	5	5	—
Number above ground	—	—	18
Number mosquito-protected	—	—	5
Number of 400 gallons capacity or less	—	16	—
Number above 400 gallons	18	20	18

Nature of Water Supply.	1915	1916	1917
Nature of tanks :—			
Wood	—	—	—
Iron	18	20	18
Concrete	—	—	—
Barrels :—			
Number	—	—	—
Number mosquito-protected	—	—	—

13. DRAINAGE.

Nature of Drainage.	Public.	Private.
Masonry drains :—		
Lineal yards of masonry drains :—	A few roads with brick gutters.	
1915	200	—
1916	3,000	—
1917		
Linear yards reconstructed during the year :—	All kept in order.	
1915	250	—
1916	—	—
1917	—	—
Linear yards repaired during the year :—		
1915	200	—
1916	—	—
1917	—	—
Linear yards of new drains constructed during the year :—	About 400 yards constructed.	
1915	250	—
1916	2,000	—
1917		
Earth drains or ditches :—		
Number of linear yards of ditches cleaned :—	All roadside ditches cleaned periodically.	
1915	—	—
1916		
1917		
Number of linear yards of ditches dug and graded :—		
1915	—	—
1916	—	—
1917	—	—
Average frequency of clearing ditches of grass :—		
1915	—	—
1916	—	—
1917	—	—

14. CLEARANCE OF UNDERGROWTH, LONG GRASS AND JUNGLE.

	1915	1916	1917
Number of square yards of weeds, grass, and vegetation cut and removed	No record	No record	3 times a year.
Average frequency of clearance of rank vegetation on same area	Cleaned as required.	periodically	as required.

15. EXCAVATIONS AND LOW-LYING LAND.

	1915	1916	1917
Number of pools and excavations	All pools reported by Sanitary Inspector are drained or filled in at once by occupier of land.		
Number of excavations filled up			
Amount of low-lying and marsh land raised and drained			
Number of pools, marshes, streams, &c., fish-stocked ...			
Number of cubic yards of material used for filling up pools and excavations	—	—	—
Number of persons fined for making new excavations ...	—	—	—
Average number of men daily employed in filling up pools &c.	—	—	—

16. OILING.

	1915	1916	1917
Number of drains oiled	—	—	—
Number of pools and excavations oiled	—	—	—
Number of tanks and barrels oiled	—	—	—
Average number of men daily employed for oiling drains, pools, and watertanks or barrels	—	—	—

17 INSPECTIONS AND PROSECUTIONS.

	1915	1916	1917
Number of inspectors employed	One native Sanitary Inspector works under M.O.H. All inspected regularly.		
Number of houses inspected			
Number of houses where larvae were found	4	4	1
Number of notices served to remove conditions causing the breeding of larvae	4	4	1
Number of persons fined for having mosquito larvae on premises	—	—	—
Number of notices served to remove insanitary conditions on premises	63	80	56
Number of persons fined for not removing insanitary conditions after notice	—	—	1
Number of soda and aerated water factories inspected ...	2	2	1

TABLE IV.

SUMMARY OF ROUTINE SANITARY WORK DONE DURING THE YEAR
IN THE TOWN.

1. NAME OF TOWN—ZOMBA.

—	Approximate area.	Number of proclaimed open spaces.
1915	668 acres	Unknown.
1916	668 "	"
1917	668 "	"

2. POPULATION.

—	Number of Natives.		Number of Europeans.		Total.
	Males.	Females.	Males.	Females.	
1915	345	72	74	32	523
1916	327	120	71	30	548
1917	320	115	56	24	515

3. HOUSING.

—	Number occupied by Europeans.	Number occupied by Natives.
Number of Houses :—		
1915	60	43
1916	63	53
1917	70	60
		} Servants Quarters.
Number of Huts :—		
1915	—	—
1916	—	—
1917	—	—

4. MOSQUITO PROTECTION OF HOUSES.

—	1915	1916	1917
Number of European houses wholly mosquito-protected ...	Nil	Nil	Nil
Number of European houses with mosquito room	"	"	"
Number rendered during the year wholly mosquito-protected	"	"	"
Number rendered during the year partially mosquito-protected	"	"	"

5. ERECTION OF NEW BUILDINGS DURING THE YEAR.

	1915	1916	1917
Number of public buildings erected with sanction as to site, construction, and relation to other buildings	Nil	Nil	Nil
Number of houses erected with sanction as to site, construction, and relation to other buildings	1	3	„
Number of huts erected with sanction as to site, construction, and relation to other buildings	Nil	Unknown.	
Number of houses built without sanction	„	„	„
Number of huts built without sanction	„	„	„

ACTION TAKEN.

	Number of Prosecutions		Number demolished.	
	Huts.	Houses.	Huts.	Houses.
1915	Nil	Nil	Nil	Nil
1916	„	„	„	„
1917	„	„	„	„

6. MARKETS.

	Total number.	Number paved and drained.	Number unpaved.
1915	1	Nil	1
1916	1	„	1
1917	1	„	1

7. SLAUGHTER-HOUSES.

	Total number.	Number paved and drained.	Number unpaved.
1915	2	Unknown	2
1916	Nil	„	Nil
1917	1	„	1

8. LATRINES.

	For Males.		For Females	
	Number.	Number of seats.	Number.	Number of seats.
Number of Public Latrines :—				
1915	5	26	3	15
1916	5	26	3	15
1917	5	26	3	15
Number of new Public Latrines erected during the year :—				
1915	Nil	Nil	Nil	Nil
1916	"	"	"	"
1917	"	"	"	"
Number of Public Latrines repaired during the year :—				
1915	Nil	Nil	Nil	Nil
1916	2	10	1	5
1917	Nil	Nil	Nil	Nil
Number of Public Latrines demolished during the year :—				
1915	Nil	Nil	Nil	Nil
1916	"	"	"	"
1917	"	"	"	"

	1915	1916	1917
Number of Private Latrines	60	63	64
Average number of pails of nightsoil removed daily ...	"	"	"
Average number of soiled pails removed and clean pails substituted	"	"	"
Number of nightsoil men employed to clean latrines and remove excreta	Unknown	Unknown	Unknown
Number of cesspools	Nil	Nil	Nil
Number of cesspools cleansed	"	"	"
Number of new cesspools constructed during the year ...	"	"	"
Number of old cesspools abolished	"	"	"
Number of cesspools oiled regularly by Department ...	"	"	"

9. REMOVAL OF REFUSE.

	1915	1916	1917
Number of dustbins	60	30	30
Number of carts at work daily to remove refuse from streets	Nil	Nil	Nil
Amount of refuse removed daily	Unknown	Unknown	Unknown
Number of carts at work daily to remove refuse from yards and premises... ..	Nil	Nil	Nil
Amount of refuse removed daily from yards and premises .	No record.		
Number of men employed for moving refuse		"	

10. MODE OF DISPOSAL OF EXCRETA, REFUSE AND OFFAL.

	Daily average number of pails of excreta.			Daily average number of cartloads of refuse			Daily average number of cartloads of Slaughter House and Market Offal.		
	1915	1916	1917	1915	1916	1917	1915	1916	1917
Buried or trenched	60	61	63	Unknown	—	—	Unknown	Unknown	Unknown
Burnt	Nil	2	Nil	—	”	—	”	”	”
Thrown into sea	”	Nil	”	—	”	—	”	”	”
Otherwise dealt with	”	”	”	—	”	—	”	”	”

State mode of disposal.

11. AVERAGE DAILY NUMBER OF CARTLOADS OF TIN CANS, BOTTLES, BROKEN CROCKERY, AND OTHER INCOMBUSTIBLE MATERIAL REMOVED FROM HOUSES, HUTS AND COMPOUNDS.

1915	1916	1917
No record.	No record.	No record.

12. WATER SUPPLY.

Nature of Water Supply.	1915	1916	1917
Pipe-borne water :—			
Source (river, lake, or spring) :—	River	River	River
Number of linear yards	Nil	Nil	Nil
Number of stand-pipes along roads	”	”	”
Number of stand-pipes in compounds and houses	”	”	”
Wells :—			
Public :—			
Number	Nil	Nil	Nil
Number with pumps protected against surface water and mosquito-protected	”	”	”
Private :—			
Number	Nil	Nil	Nil
Number protected against surface water and mosquito-protected	”	”	”
Tanks :—			
Public :—			
Number underground	Nil	Nil	Nil
Number mosquito-protected and served by pumps	”	”	”
Number above ground	”	”	”
Number mosquito-protected	”	”	”
Number of 400 gallons capacity or less	”	”	”
Number above 400 gallons	”	”	”
Private :—			
Number underground	Nil	Nil	Nil
Number mosquito-protected	”	”	”
Number above ground	”	”	”
Number mosquito-protected	”	”	”
Number of 400 gallons capacity or less	”	”	”
Number above 400 gallons	”	”	”

Nature of Water Supply.	1915	1916	1917
Nature of tanks :—			
Wood	Nil	Nil	Nil
Iron	1	1	1
Concrete	Nil	Nil	Nil
Barrels :—			
Number	”	”	”
Number mosquito-protected	”	”	”

13. DRAINAGE.

Nature of Drainage.	Public.	Private.
Masonry drains :—		
Linear yards of masonry drains :—		
1915	1704	Nil
1916	1704	”
1917	Nil	”
Linear yards reconstructed during the year :—		
1915	Nil	Nil
1916	”	”
1917	”	”
Linear yards repaired during the year :—		
1915	Nil	Nil
1916	Nil	Nil
1917	”	”
Linear yards of new drains constructed during the year :—		
1915	Nil	Nil
1916	440	”
1917	Nil	”
Earth drains or ditches :—		
Number of linear yards of ditches cleaned :—		
1915	Unknown	Unknown.
1916	”	”
1917	”	”
Number of linear yards of ditches dug and graded :—		
1915	Unknown	Unknown.
1916	”	”
1917	”	”
Average frequency of clearing ditches of grass :—		
1915	Periodically.	Periodically.
1916	”	”
1917	”	”

14. CLEARANCE OF UNDERGROWTH, LONG GRASS AND JUNGLE.

	1915	1916	1917
Number of square yards of weeds, grass, and vegetation cut and removed	Unknown		
Average frequency of clearance of rank vegetation on same area	About	once a	year.

15. EXCAVATIONS AND LOW-LYING LAND.

	1915	1916	1917
Number of pools and excavations	Nil	2	8
Number of excavations filled up	2	2	8
Amount of low-lying and marsh land raised and drained ...	Nil	2 acres.	—
Number of pools, marshes, streams, &c., fish-stocked ...	,,	Nil	Nil
Number of cubic yards of material used for filling up pools and excavations	,,	,,	,,
Number of persons fined for making new excavations ...	,,	,,	,,
Average number of men daily employed in filling up pools &c.	,,	,,	,,

16. OILING.

	1915	1916	1917
Number of drains oiled	Nil	Nil	Nil
Number of pools and excavations oiled	1	,,	,,
Number of tanks and barrels oiled	Nil	,,	,,
Average number of men daily employed for oiling drains, pools, and watertanks or barrels	,,	,,	,,

17. INSPECTIONS AND PROSECUTIONS.

	1915	1916	1917
Number of inspectors employed	1	1	1
Number of houses inspected	60	60	67 (also Indian Quarters).
Number of houses where larvae were found	wherever rain gutters exist.		—
Number of notices served to remove conditions causing the breeding of larvae	6	7	8
Number of persons fined for having mosquito larvae on premises	Nil	2	Nil
Number of notices served to remove insanitary conditions on premises	40	49	46
Number of persons fined for not removing insanitary conditions after notice	Nil	6	Nil
Number of soda and aerated water factories inspected ...	2	1	,,

SECTION V.
HOSPITALS AND DISPENSARIES.

There were no new buildings constructed, and no additions or alterations made to the existing ones.

DISEASES TREATED.

Table VI. gives the return of Diseases and Deaths of in-patients, and Table VII. of out-patients.

TABLE VI.

RETURN OF DISEASES (IN-PATIENTS) FOR THE YEAR 1917.

Diseases.	Admissions.	Deaths.
INFECTIVE DISEASES.		
Chicken-pox	10	—
Dysentery	89	10
Enteric	6	1
Paratyphoid	1	—
Gonorrhœa	9	—
Malaria—Tertian		
Aestivo-autumnal	39	—
Chronic Malaria	13	—
Black-water	9	2
Tick Fever	1	—
Measles	3	—
Pneumonia	35	8
Mumps	1	—
Rheumatism	12	—
Trypanosomiasis (Sleeping Sickness)	1	—
Syphilis (a) Primary	4	—
(b) Secondary	24	2
Tuberculosis	3	—
Yaws	6	—
Pyrexia of unknown origin	27	2
INTOXICATIONS.		
Pellagra	1	1
GENERAL DISEASES		
Anæmia—Pernicious	3	—
Total	297	26

TABLE VI.—IN-PATIENTS—*Continued.*

RETURN OF DISEASES AND DEATHS (IN-PATIENTS) FOR THE YEAR 1917.

Diseases.			Admissions.	Deaths.
<i>Brought forward</i>			297	26
LOCAL DISEASES.				
Nervous System :—	Meningitis	..	2	2
	Epilepsy	... ..	5	—
	Neuralgia	... ..	3	—
	Neurasthenia	... ..	4	—
Diseases of the Eye—	Conjunctivitis	... ..	2	—
	Ulceration of Cornea	... ..	1	—
	Optic Neuritis	... ..	2	—
Diseases of the Ear—	Inflammation	... ..	4	—
	Other Diseases (ear)	... ..	1	—
Diseases of the Nose :—	Coryza	... ..	1	—
Circulatory System :—	Cardia dilatation			
	Varicose Veins	... ..	4	—
	Endocarditis	... ..	2	—
	Tachycardia	... ..	1	—
	Aortic Incompetence	... ..	1	—
Respiratory System :—	Bronchitis	... ..	6	—
	Asthma	... ..	1	—
	Broncho-pneumonia	..	2	1
	Pleurisy	... ..	6	—
	Empyema	... ..	1	—
Digestive System—	Stomatitis	... ..	1	—
	Caries of teeth	... ..	1	—
	Sore Throat	... ..	1	—
	Inflammation of Tonsils	... ..	1	—
	Gastritis	... ..	4	—
	Ulceration of Stomach	... ..	1	—
	Dyspepsia	..	2	—
	Appendicitis	... ..	11	—
	Colitis	... ..	1	—
	Dental Hæmorrhage	... ..	1	—
	Hernia	... ..	3	—
	Diarrhœa	... ..	22	1
	Colic	... ..	1	—
	Hæmorrhoids	... ..	10	—
	Pancreatitis	... ..	1	—
	Cirrhosis	... ..	1	1
	Jaundice	... ..	1	—
	Peritoneal adhesions	... ..	1	—
	Rupture of spleen	... ..	1	1
Lymphatic System :—	Inflammation of Lymphatic Gland	... ..	5	—
	Suppuration of Lymphatic Gland	..	2	—
	Lymphangitis	... ..	1	—
	Elephantiasis	... ..	1	—
Urinary System :—	Acute Nephritis	... ..	1	—
	Bright's Disease	... ..	1	—
	Hæmaturia	... ..	1	—
	Stricture	... ..	2	—
	Soft chancre	... ..	2	—
	Hydrocele	... ..	1	—
	Varicocele	... ..	5	—
	Abscess of perineum	... ..	1	—
	Phagedœna	... ..	1	—
	Rupture of perineum	... ..	1	—
<i>Carried forward</i>			436	32

TABLE VI.—IN-PATIENTS.—*Continued.*

RETURN OF DISEASES AND DEATHS (IN-PATIENTS) FOR THE YEAR 1917.

Diseases.				Admissions.	Deaths.
<i>Brought forward</i>				436	32
LOCAL DISEASES.					
Endometritis ...	...	...	...	1	—
Vaginitis and Fistula	...	...	...	1	—
Salpingitis ...	...	...	...	1	—
Menorrhagia ...	...	...	...	1	—
Vomiting in pregnancy ...	...	...	...	1	—
Abortion ...	...	...	...	2	—
Labour normal	...	...	...	4	—
Subinvolution of uterus ...	...	...	...	1	—
Recto-vaginal fistula	...	...	...	1	—
Mastitis ...	...	...	...	1	—
Congen. Occlusion of Vagina	...	...	...	1	—
Osteitis, tubercular	...	...	...	1	—
Arthritis ...	...	...	...	1	—
Cellulitis ...	...	...	...	2	—
Abscess ...	...	...	...	17	—
Ingrowing Nail	...	...	...	1	—
Urticaria ...	...	...	...	1	—
Eczema ...	...	...	...	1	—
Boil ...	...	...	...	1	—
Tinea	...	...	...	3	—
Ulcers ...	...	...	...	37	—
Contusion	...	...	...	3	—
Injuries :—General	...	...	...	4	3
Wounds	...	...	...	18	—
Local	...	...	...	46	1
Surgical Operations	...	...	...	112	2
Confinements	...	...	...	7	—
Tumours ...	...	...	...	5	—
Malformations	...	...	...	1	—
Poisons ...	...	...	...	1	—
Snake bite ...	...	...	...	1	—
Trematoda (Flukes)	...	...	...	3	—
Ascaris ...	...	...	...	1	—
Dracunculus	...	...	...	1	—
Ankylostomiasis	...	...	...	7	1
Undiagnosed	...	...	...	4	1
Total				730	40

TABLE VII.

RETURN OF DISEASES (OUT-PATIENTS) FOR THE YEAR 1916.

Diseases.				Male.	Female.
INFECTIVE DISEASES.					
Beri-Beri	...	...	...	1	—
Chicken-pox ...	...	...	...	7	—
Diphtheria	...	...	...	1	—
<i>Carried forward</i>				9	—

TABLE VII.—OUT-PATIENTS—*Continued.*

RETURN OF DISEASES (OUT-PATIENTS) FOR THE YEAR 1917.

Diseases.	Male.	Female.
<i>Brought forward</i>	9	—
INFECTIVE DISEASES.		
Dysentery	140	19
Enteric	1	—
Erysipelas	—	1
Gonorrhœa	20	5
Influenza	3	—
Leprosy :—Nodular	1	—
Malaria :—Aestivo-autumnal	53	13
Chronic Malaria	86	30
Black-water	1	—
Measles	1	—
Pneumonia	10	4
Relapsing Fever	1	—
Mumps	—	1
Syphilis—Primary	17	—
Secondary	24	19
Tertiary	1	—
Tuberculosis	1	1
Whooping Cough	2	1
Yaws	1	6
Pyrexia of unknown origin	139	12
INTOXICATIONS.		
Alcoholism	2	—
Pellagra	1	—
GENERAL DISEASES.		
Aneæmia	3	—
Diabetes	—	1
Gout	1	—
Debility	4	3
Rickets	1	1
Rheumatism	93	7
Lumbago	16	12
LOCAL DISEASES.		
Nervous System :—Paralysis Hypertrophic		
Neuritis	3	—
Paralysis	1	—
Pseudo-hypertrophic muscular	1	—
Epilepsy	3	—
Neuralgia	160	11
Hysteria	1	—
Vertigo	2	—
Headache	79	35
Neurasthenia	4	—
Mental Diseases—Insomnia	2	—
Idiocy	—	1
Dementia	1	—
Delusional Insanity	—	1
<i>Carried forward</i>	889	184

TABLE VII.—OUT-PATIENTS.—*Continued.*

RETURN OF DISEASES (OUT-PATIENTS) FOR THE YEAR 1917.

Diseases.	Male.	Female.
<i>Brought forward</i>	889	184
<i>LOCAL DISEASES—Continued.</i>		
Diseases of the eye—		
Conjunctivitis ...	120	64
Ulceration of Cornea ...	5	2
Iritis ...	1	—
Nocturnal amaurosis ...	1	—
Hordeolum ...	2	—
Diseases of the ear—		
Inflammation ...	104	24
Other Diseases ...	27	6
Catarrh ...	16	4
Diseases of the Nose :—	5	—
Coryza ...	64	—
Rhinitis ...	1	—
Diseases of the Circulatory System—	2	—
Endocarditis ...	1	—
Diseases of the Respiratory system :—		
Laryngitis ...	2	—
Bronchitis ...	248	65
Asthma ...	3	1
Broncho-pneumonia ...	1	—
Pleurisy ...	26	7
Pleurodynia ...	11	5
Phthisis ...	1	—
Diseases of the Digestive system—		
Stomatitis ...	15	9
Caries of teeth ...	73	125
Glossitis ...	4	1
Sore Throat ...	17	3
Inflammation of Tonsils ...	6	1
Gastritis ...	6	1
Ulceration of Stomach ...	—	1
Pharyngitis ...	2	1
Dyspepsia ...	67	6
Enteritis ...	1	—
Colitis ...	1	—
Gingivitis ...	1	—
Hernia ...	4	—
Diarrhœa ...	441	86
Constipation ...	370	86
Colic ...	16	4
Hæmorrhoids ...	4	—
Thrush ...	1	—
Ranula ...	1	—
Hepatitis—Acute ...	2	—
Perisplenitis ...	1	—
Diseases of the Lymphatic System—		
Inflammation of Lymphatic Gland ...	5	—
Suppuration of Lymphatic Gland ...	9	—
Lymphangitis ...	2	—
<i>Carried forward</i>	2,679	686

TABLE VII.—OUT-PATIENTS.—*Continued.*

RETURN OF DISEASES (OUT-PATIENTS) FOR THE YEAR 1917.					Diseases.	Male.	Female.
<i>Brought forward</i>						2,679	686
LOCAL DISEASES— <i>Continued.</i>							
Diseases of the Urinary System—							
					Acute Nephritis ...	1	—
					Bright's Disease ...	1	—
					Schistosomiasis ...	2	—
					Cystitis ...	2	—
					Hæmaturia ...	11	2
					Retention of urine ...	1	—
					Pyuria ...	1	—
Diseases of the Generative System—							
Male Organs—							
					Gleet ...	1	2
					Hydrocele ...	1	—
					Orchitis ...	1	—
					Empididymitis ...	1	—
					Varicocele ...	3	—
					Balanitis ...	1	—
					Phymosis ...	1	—
Female Organs:—							
					Endometritis ...	—	1
					Abortion ...	—	3
					Mastitis ...	—	9
					Abscess of Breast ...	—	2
Diseases of the Organs of Locomotion:—							
					Arthritis ...	14	5
					Whitlow ...	15	7
					Myositis ...	21	1
					Syonvitis ...	4	1
					Teno-Synovitis ...	7	—
Diseases of Connective Tissue—							
					Cellulitis ...	63	25
					Abscess ...	79	19
					Fibromyositis ...	9	1
Diseases skin—							
					Urticaria ...	1	—
					Eczema ...	52	16
					Boil ...	78	41
					Herpes ...	4	2
					Impetigo ...	13	4
					Tinea ...	8	—
					Scabies ...	595	245
					Pemphigus ...	1	—
					Sundamina ...	1	—
					Ulcers ...	822	183
Total						4,494	1,255

TABLE VII.—OUT-PATIENTS.—*Continued.*

RETURN OF DISEASES (OUT-PATIENTS) FOR THE YEAR 1917.

Diseases.				Male.	Female.
INJURIES.					
<i>Brought forward</i>				4,494	1,255
Injuries—General	...	...	...	6	2
Gunshot wound	...	...	...	2	—
Local	...	...	...	714	75
Surgical Operations	...	...	...	101	—
Tumours	...	...	...	7	1
Malformations	...	...	...	1	—
Poisons	...	...	...	3	—
Parasites—Animal	...	...	...	28	4
Protozoa <i>Balantidium coli</i>	...	...	...	1	—
Trematoda (Flukes)	...	...	...	9	—
Cestoda— <i>Tænia Solium</i>	...	...	...	1	—
Nematoda— <i>Ascaris</i> ...	...	...	...	2	—
Filariasis	...	...	...	1	—
Ankylostomiasis	...	...	...	2	—
Insecta—Myiasis	...	...	...	—	1
Not diagnosed	...	...	...	25	1
Trichiuris ...	...	...	...	1	—
Total				5,398	1,339

